

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-178192

(43)Date of publication of application : 25.06.1992

(51)Int.Cl.

H02P 7/29

(21)Application number : 02-301642

(71)Applicant : OMRON CORP

(22)Date of filing : 07.11.1990

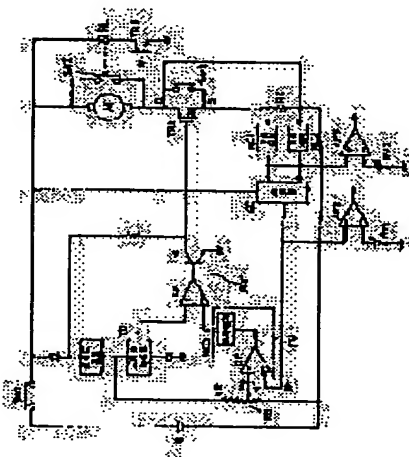
(72)Inventor : NOZOE SATOSHI

## (54) DC MOTOR CONTROL CIRCUIT

## (57)Abstract:

**PURPOSE:** To timely cause a DC motor to stop suddenly by providing a damping means for short-circuiting both ends in a closed state and damping the DC motor and by providing a drive circuit for driving the damping means to the closed side, when the number of revolutions or torque of the DC motor takes a required value.

**CONSTITUTION:** A power switch SW1 interlocks with an operating lever, a damping contact SW2 is closed at the time of power OFF to damp a DC motor M, and a short-circuit contact SW3 is closed at the time of pulling the operating lever to the maximum stroke to short-circuit the switching part D-S of a motor current switching element TR2. When the actual number of revolutions Nr of the DC motor M becomes the minimum number of revolutions set by a reference variable power supply RV1 or the torque of the motor becomes a set torque, the output of each of comparators AP2 and AP3 is reversed from a low level to a high level. As a result, a transistor TR3 is ON-driven and a relay RL is conducted so that the damping contact SW2 is driven to the closed side. Thus, the DC motor M is damped to stop suddenly irrespective of the operation of the operating lever.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office